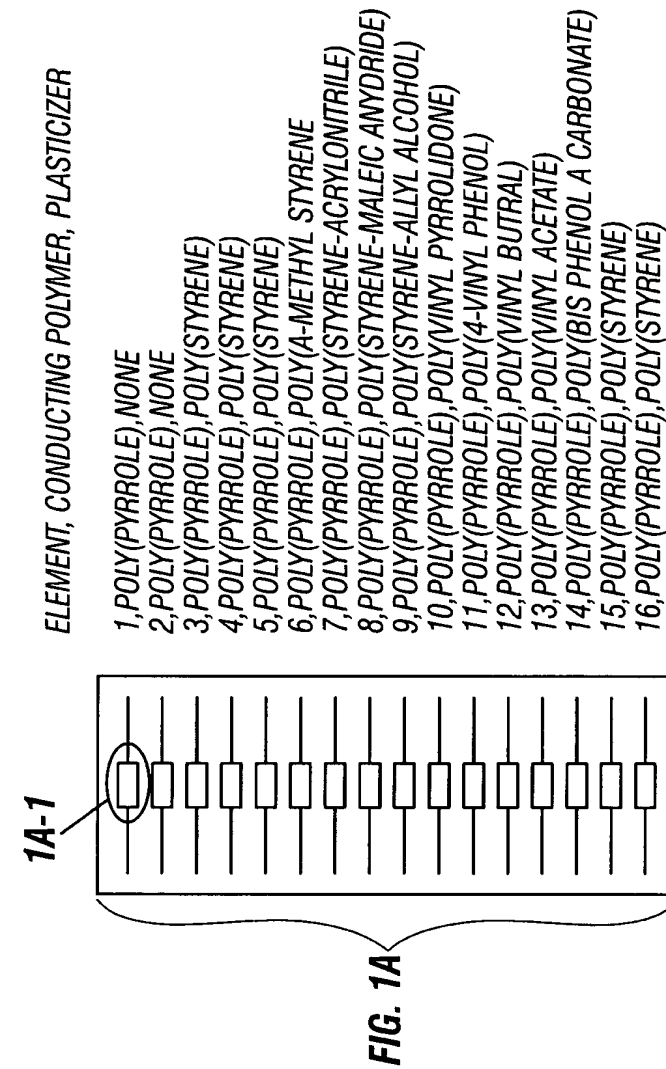
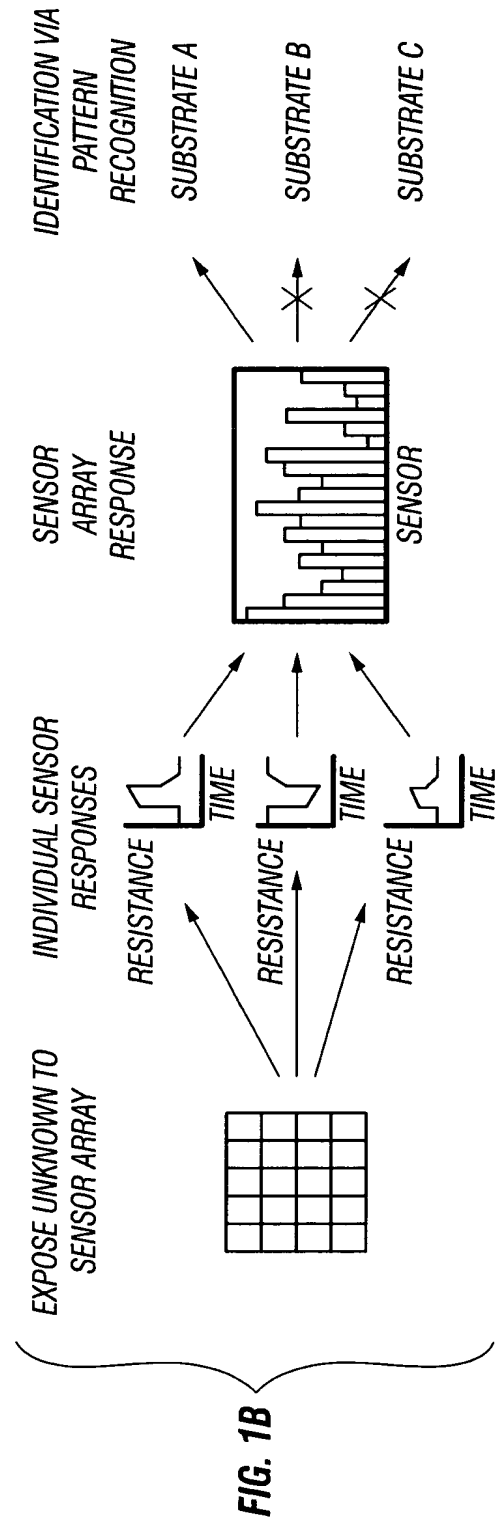
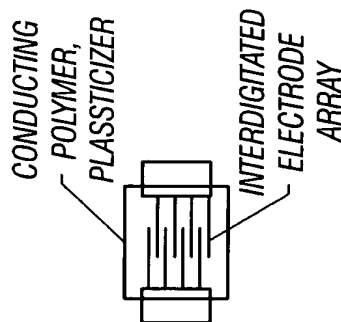


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**FIG. 1A-1**



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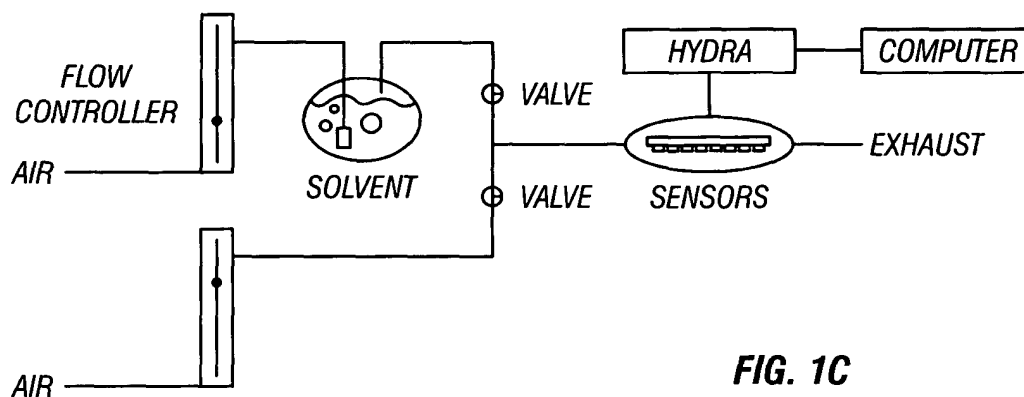


FIG. 1C

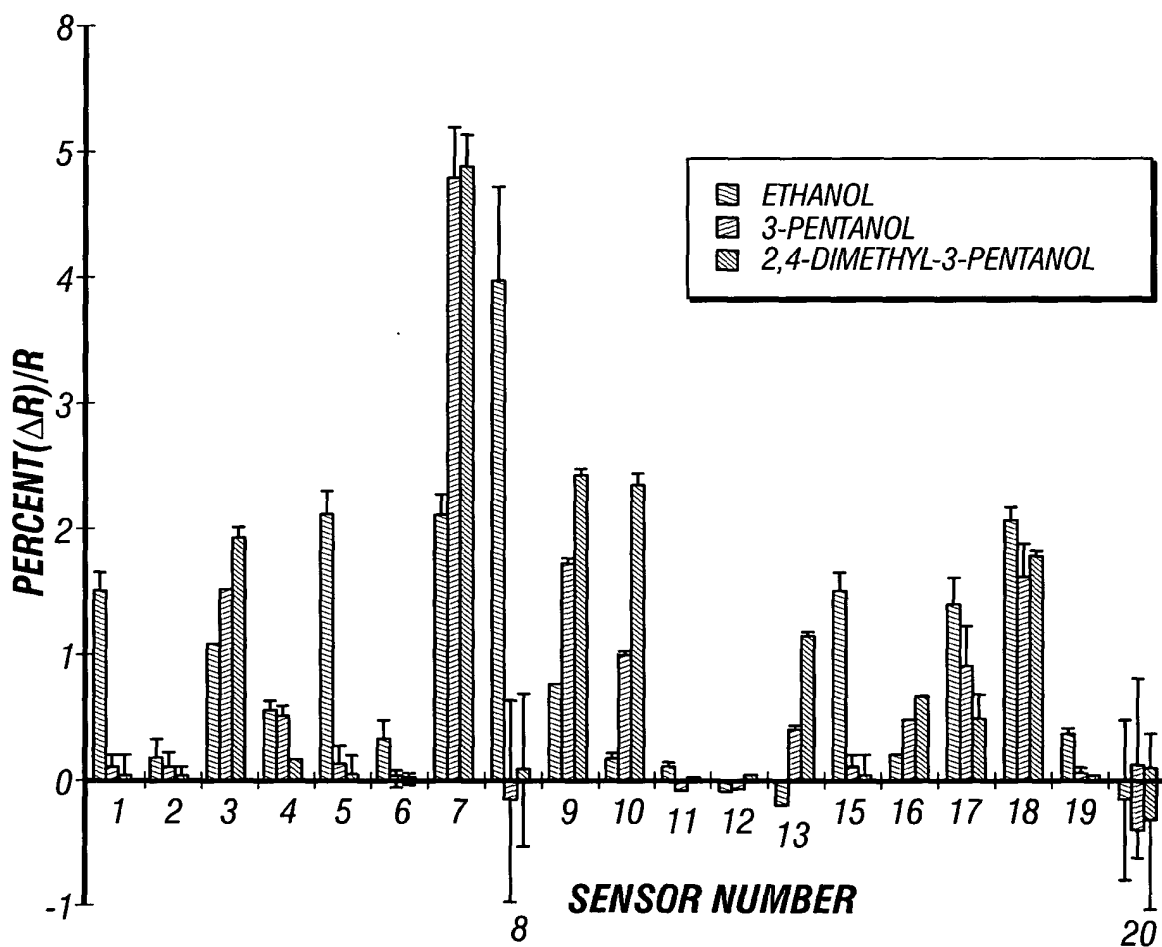


FIG. 2

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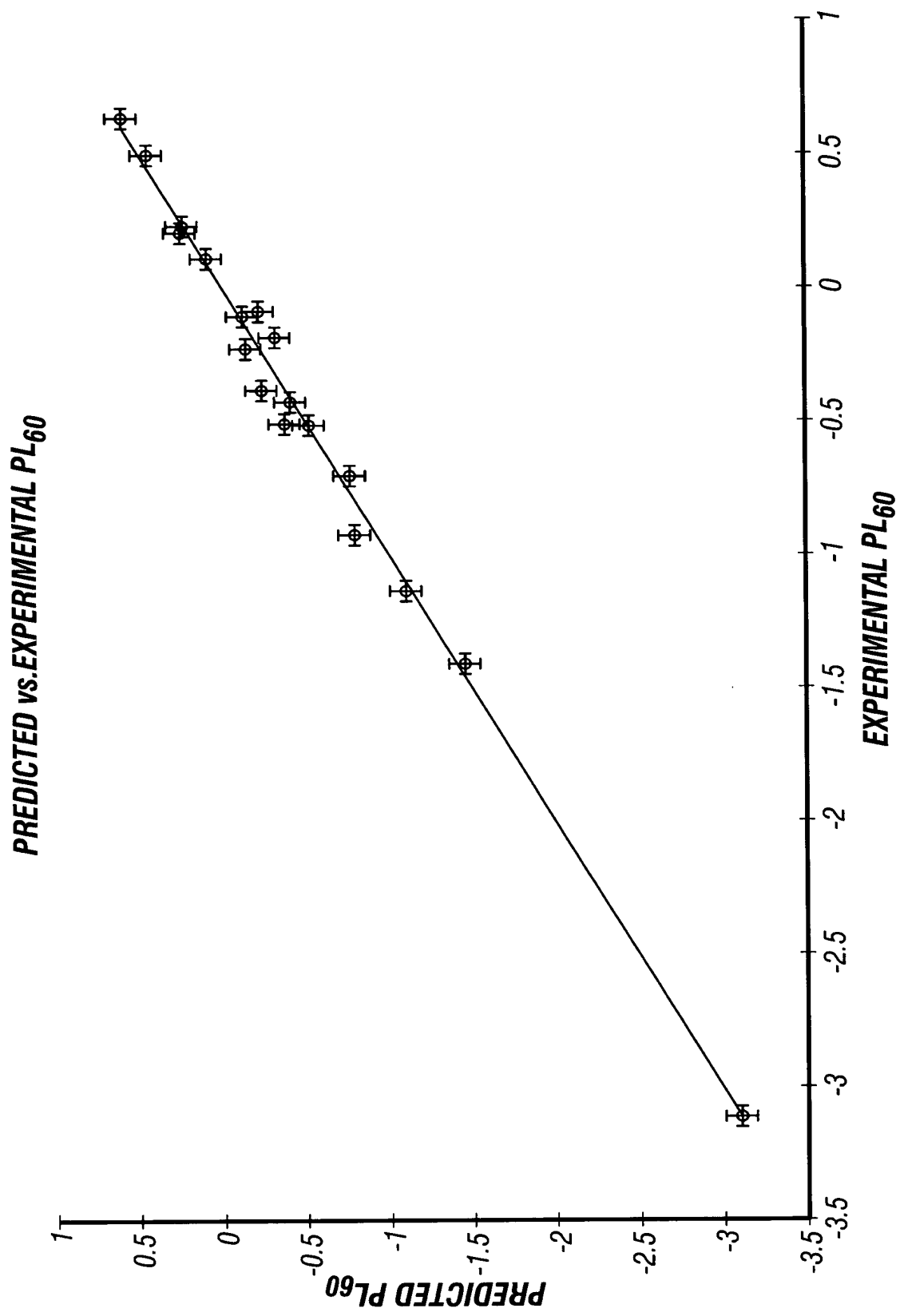
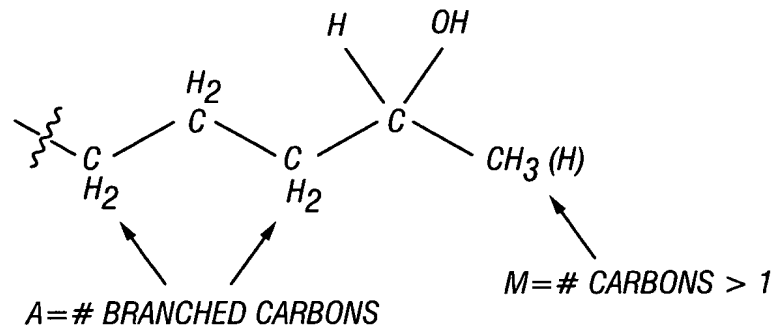


FIG. 3

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**FIG. 4**

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<i>alcohol</i>	<i>experiment al p<sub>50</sub></i>	<i>run# (bubbler#)</i>	<i>sensor # polymer name: poly(4-vinylpyridine)</i>	<i>poly(vinyl chloride)</i>	<i>poly(ethylene oxide)</i>
			<b>1</b>	<b>2</b>	<b>3</b>
1-butanol	-0.05	1 (8)	0.23 (0.08)	0.01 (0.15)	1.83 (0.22)
1-heptanol	0.68	2 (6)	0.05 (0.10)	0.04 (0.16)	1.90 (0.10)
1-hexanol	0.54	3 (6)	0.09 (0.08)	0.03 (0.16)	1.76 (0.04)
1-pentanol	0.27	3 (7)	0.17 (0.10)	-0.03 (0.13)	1.63 (0.02)
1-propanol	-0.48	3 (3)	0.55 (0.14)	-0.03 (0.19)	1.18 (0.01)
2,4-dimethyl-3-pentanol	-1.38	2 (1)	0.05 (0.14)	-0.02 (0.13)	2.00 (0.06)
2-butanol	-0.35	2 (8)	0.20 (0.13)	-0.06 (0.12)	1.35 (0.04)
2-heptanol	0.25	1 (2)	0.13 (0.08)	-0.04 (0.09)	2.89 (0.54)
2-hexanol	0.15	2 (2)	0.16 (0.15)	0.01 (0.15)	1.69 (0.09)
2-methyl-1-butanol	-0.15	2 (7)	0.04 (0.11)	0.02 (0.12)	1.74 (0.05)
2-methyl-1-propanol	-0.39	1 (6)	0.12 (0.07)	0.01 (0.12)	1.84 (0.15)
2-methyl-3-pentanol	-0.89	1 (1)	0.13 (0.09)	0.06 (0.11)	2.34 (0.33)
2-pentanol	-0.07	3 (8)	0.06 (0.06)	-0.03 (0.13)	1.41 (0.02)
2-propanol	-0.47	1 (7)	0.24 (0.08)	0.13 (0.14)	1.58 (0.23)
3-hexanol	-0.47	3 (1)	0.07 (0.08)	0.01 (0.13)	1.57 (0.03)
3-methyl-1-butanol	-0.19	3 (5)	0.08 (0.08)	0.03 (0.08)	1.49 (0.02)
3-pentanol	-0.37	2 (4)	0.11 (0.09)	0.08 (0.15)	1.52 (0.04)
ethanol	-1.10	2 (3)	1.52 (0.15)	0.19 (0.14)	1.08 (0.02)
methanol	-3.09	1 (3)	3.71 (0.23)	0.57 (0.12)	1.33 (0.10)
neopentanol (solid)	-0.67	3 (2)	0.03 (0.10)	0.00 (0.18)	1.37 (0.04)
benzyl alcohol	0.32	1 (4)	0.06 (0.07)	0.04 (0.13)	3.05 (0.91)
tert-amyl alcohol	-2.56	1 (5)	0.10 (0.10)	-0.07 (0.14)	1.77 (0.24)
1,3-propanediol	-1.87	3 (4)	-0.02 (0.10)	0.04 (0.12)	0.17 (0.02)
1,4-butanediol	-1.41	2 (5)	-0.01 (0.09)	-0.01 (0.15)	0.19 (0.20)

FIG. 5A

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<i>poly(styrene/allyl alcohol)</i>	<i>poly(4-vinylphenol)</i>	<i>poly(vinyl acetate)</i>	<i>ethyl cellulose</i>	<i>poly(N-vinylpyrrolidone)</i>
<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
0.56 (0.08)	0.41 (0.17)	0.11 (0.08)	4.04 (0.20)	0.31 (0.70)
0.23 (0.02)	0.08 (0.11)	-0.07 (0.05)	4.28 (0.21)	0.52 (0.84)
0.45 (0.05)	0.11 (0.09)	-0.08 (0.05)	5.32 (0.18)	-0.07 (0.60)
0.58 (0.05)	0.16 (0.10)	0.02 (0.04)	4.97 (0.14)	0.67 (0.58)
0.57 (0.04)	0.70 (0.09)	0.20 (0.03)	3.17 (0.14)	1.08 (0.82)
0.17 (0.02)	0.10 (0.11)	0.00 (0.03)	4.94 (0.25)	0.11 (0.61)
0.65 (0.10)	0.29 (0.23)	0.14 (0.05)	3.89 (0.29)	0.23 (0.68)
0.28 (0.04)	0.11 (0.13)	-0.09 (0.05)	4.76 (0.18)	0.23 (0.99)
0.37 (0.03)	0.17 (0.11)	-0.05 (0.03)	5.10 (0.31)	0.77 (0.42)
0.34 (0.04)	0.16 (0.14)	-0.01 (0.04)	4.76 (0.27)	0.09 (0.73)
0.48 (0.08)	0.28 (0.14)	0.10 (0.03)	3.98 (0.20)	0.47 (0.59)
0.29 (0.05)	0.19 (0.11)	-0.03 (0.04)	5.24 (0.26)	0.76 (0.61)
0.57 (0.07)	0.14 (0.09)	0.00 (0.07)	4.90 (0.19)	0.68 (0.55)
0.57 (0.06)	0.62 (0.17)	0.14 (0.06)	3.31 (0.31)	0.40 (0.88)
0.40 (0.04)	0.07 (0.08)	-0.06 (0.05)	5.56 (0.23)	0.02 (1.03)
0.39 (0.03)	0.07 (0.07)	0.01 (0.04)	4.82 (0.13)	0.08 (0.83)
0.55 (0.06)	0.16 (0.13)	-0.01 (0.05)	4.83 (0.41)	-0.13 (0.81)
0.59 (0.05)	2.19 (0.17)	0.31 (0.03)	2.19 (0.14)	4.03 (0.74)
0.55 (0.03)	2.51 (0.21)	0.40 (0.07)	1.82 (0.22)	7.76 (0.78)
0.14 (0.03)	-0.01 (0.05)	0.02 (0.03)	3.28 (0.20)	-0.13 (0.79)
0.22 (0.03)	0.10 (0.07)	-0.03 (0.05)	2.07 (1.01)	-0.10 (0.59)
0.39 (0.07)	0.26 (0.14)	0.06 (0.05)	3.91 (0.29)	0.35 (0.62)
0.06 (0.02)	-0.01 (0.05)	0.01 (0.03)	0.40 (0.19)	-0.39 (0.80)
0.06 (0.06)	0.04 (0.06)	-0.02 (0.04)	0.81 (0.68)	-0.09 (0.79)

**FIG. 5B**

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<i>poly(ethylene/acrylic acid)</i>	<i>poly(ethylene/vinyl acetate)</i>	<i>poly(methyl methacrylate)</i>	<i>poly(methylvinylether/maleic anhydride)</i>	<i>1,2-polybutadiene</i>
9	10	11	12	13
1.65 (0.14)	0.74 (0.10)	0.00 (0.02)	-0.01 (0.01)	0.23 (0.10)
1.66 (0.09)	0.69 (0.04)	0.01 (0.03)	0.00 (0.01)	0.30 (0.02)
1.84 (0.05)	0.73 (0.02)	0.01 (0.03)	-0.01 (0.02)	0.28 (0.01)
1.70 (0.03)	0.67 (0.01)	0.01 (0.02)	0.00 (0.02)	0.21 (0.01)
1.07 (0.02)	0.40 (0.02)	0.01 (0.03)	-0.02 (0.02)	-0.03 (0.01)
2.49 (0.05)	2.42 (0.09)	0.02 (0.02)	0.03 (0.02)	1.19 (0.04)
1.62 (0.03)	0.76 (0.04)	0.00 (0.03)	-0.02 (0.01)	0.26 (0.01)
1.91 (0.06)	0.99 (0.04)	0.00 (0.03)	0.01 (0.03)	0.45 (0.02)
1.97 (0.05)	0.92 (0.03)	-0.01 (0.02)	0.10 (0.02)	0.45 (0.01)
1.82 (0.04)	0.91 (0.03)	-0.01 (0.02)	-0.01 (0.01)	0.41 (0.01)
1.65 (0.10)	0.78 (0.08)	0.00 (0.02)	-0.04 (0.02)	0.28 (0.07)
2.17 (0.02)	1.59 (0.04)	0.00 (0.03)	0.08 (0.02)	0.75 (0.02)
1.77 (0.02)	0.82 (0.02)	-0.01 (0.02)	0.00 (0.01)	0.34 (0.01)
1.45 (0.07)	0.63 (0.04)	0.00 (0.02)	-0.04 (0.03)	0.16 (0.05)
1.81 (0.04)	1.07 (0.01)	0.01 (0.02)	0.01 (0.02)	0.51 (0.01)
1.77 (0.02)	0.75 (0.02)	-0.01 (0.04)	-0.04 (0.02)	0.36 (0.01)
1.79 (0.03)	1.03 (0.04)	-0.01 (0.01)	-0.01 (0.02)	0.43 (0.01)
0.78 (0.03)	0.20 (0.04)	0.14 (0.03)	-0.03 (0.02)	-0.13 (0.03)
0.69 (0.03)	0.15 (0.04)	0.57 (0.03)	0.52 (0.05)	-0.01 (0.01)
1.54 (0.05)	0.94 (0.03)	0.00 (0.03)	0.00 (0.02)	0.42 (0.01)
0.58 (0.34)	0.33 (0.17)	-0.01 (0.02)	-0.04 (0.02)	0.11 (0.08)
2.05 (0.12)	1.04 (0.08)	0.00 (0.02)	-0.03 (0.02)	0.47 (0.06)
0.06 (0.01)	0.02 (0.02)	-0.01 (0.04)	-0.03 (0.02)	0.02 (0.01)
0.14 (0.15)	0.05 (0.05)	-0.01 (0.02)	-0.03 (0.02)	0.03 (0.02)

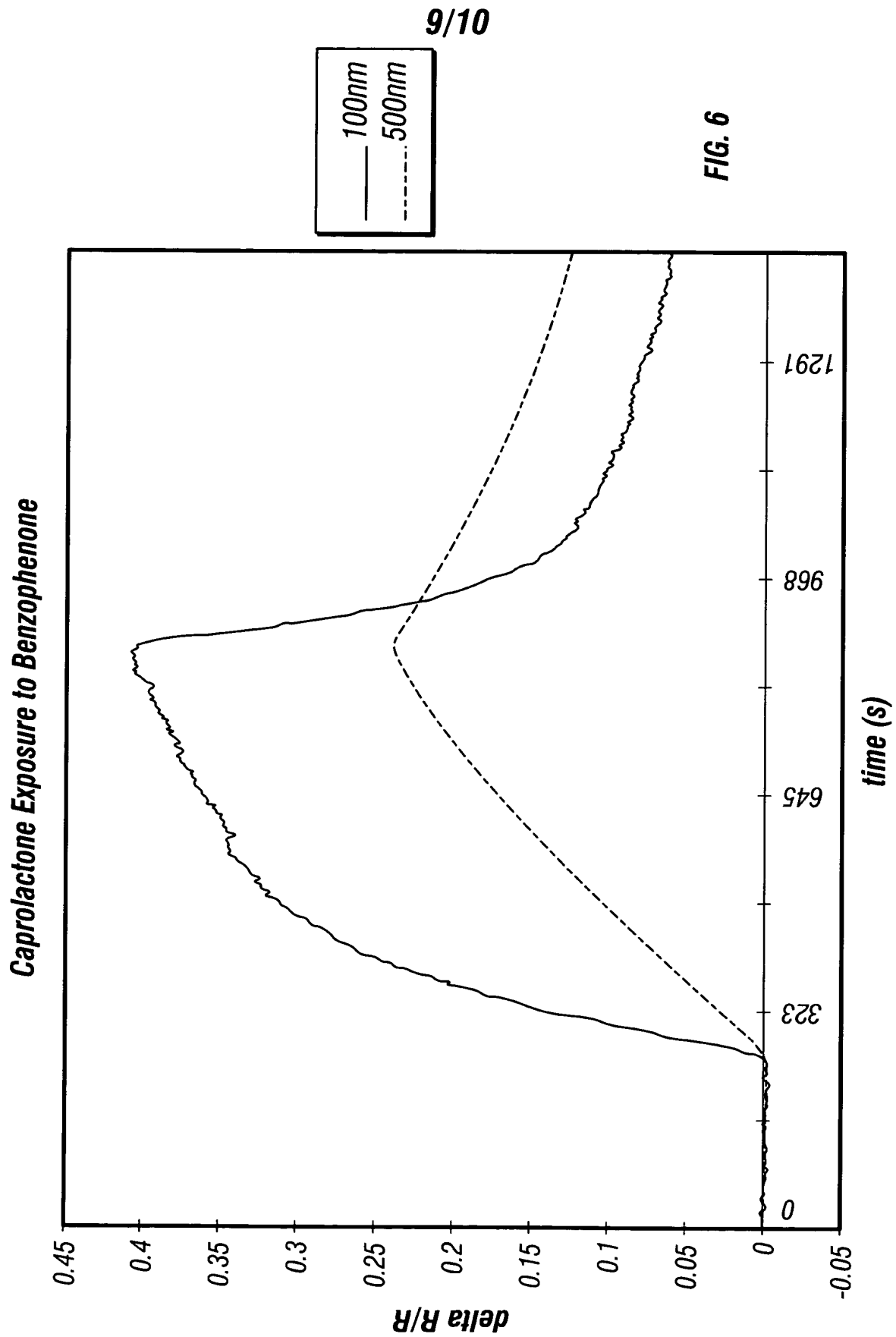
FIG. 5C

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<i>poly(styrene/acrylonitrile)</i>	<i>poly(methyloctadecylsiloxane)</i>	<i>poly(vinyl butyral)</i>	<i>poly(ethylene glycol)</i>	<i>poly(2,4,6-tribromostyrene)</i>	<i>polystyrene</i>
15	16	17	18	19	20
0.00 (0.00)	0.42 (0.02)	1.14 (0.27)	2.37 (0.25)	0.12 (0.06)	-0.46 (0.73)
0.00 (0.00)	0.41 (0.03)	0.45 (0.22)	1.23 (0.14)	0.01 (0.02)	-0.01 (0.82)
0.00 (0.00)	0.49 (0.02)	0.89 (0.14)	1.79 (0.08)	0.04 (0.03)	0.23 (0.94)
0.01 (0.00)	0.46 (0.02)	1.04 (0.18)	1.95 (0.06)	0.07 (0.06)	-0.21 (0.80)
0.02 (0.00)	0.28 (0.02)	1.51 (0.20)	2.12 (0.11)	0.25 (0.04)	0.47 (0.59)
0.00 (0.01)	0.72 (0.02)	0.54 (0.21)	1.85 (0.04)	0.01 (0.02)	-0.29 (0.69)
0.00 (0.00)	0.40(0.02)	1.03 (0.23)	1.95 (0.09)	0.13 (0.02)	0.17 (0.32)
0.00 (0.00)	0.49 (0.03)	0.62 (0.19)	2.13 (0.49)	0.03 (0.01)	-0.03 (0.32)
0.01 (0.00)	0.51 (0.01)	0.77 (0.21)	1.73 (0.11)	0.03 (0.02)	0.08 (0.76)
0.00 (0.01)	0.45 (0.02)	0.77 (0.24)	2.08 (0.11)	0.03 (0.03)	0.15 (0.84)
0.00 (0.00)	0.41 (0.02)	1.01 (0.21)	2.41 (0.19)	0.09 (0.05)	0.20 (0.50)
0.01 (0.00)	0.59 (0.02)	0.70 (0.20)	2.34 (0.25)	0.03 (0.03)	-0.09 (0.84)
0.00 (0.00)	0.45 (0.02)	1.03 (0.28)	1.85 (0.07)	0.07 (0.05)	-0.12 (0.79)
0.00 (0.00)	0.36 (0.03)	1.15 (0.17)	2.34 (0.29)	0.14 (0.04)	-0.04 (0.47)
0.00 (0.00)	0.53 (0.02)	0.87 (0.20)	1.63 (0.10)	0.06 (0.08)	-0.12 (0.74)
0.00 (0.00)	0.42 (0.02)	0.90 (0.12)	1.85 (0.06)	0.03 (0.03)	-0.09 (0.73)
0.00 (0.00)	0.50 (0.03)	0.96 (0.31)	1.85 (0.10)	0.07 (0.04)	0.14 (0.71)
0.17 (0.01)	0.23 (0.02)	1.44 (0.25)	2.14 (0.10)	0.42 (0.04)	-0.11 (0.63)
0.62 (0.03)	0.21 (0.02)	1.58 (0.25)	2.78 (0.20)	0.27 (0.03)	0.11 (0.70)
0.00 (0.00)	0.34 (0.02)	0.39 (0.20)	1.75 (0.07)	0.01 (0.03)	-0.21 (0.56)
0.00 (0.00)	0.17 (0.11)	0.34 (0.26)	1.36 (0.48)	0.01 (0.04)	-0.50 (0.76)
0.00 (0.00)	0.46 (0.01)	0.74 (0.16)	2.26 (0.23)	0.08 (0.03)	0.09 (0.48)
0.00 (0.00)	0.01 (0.02)	0.09 (0.18)	0.09 (0.09)	0.00 (0.13)	0.04 (0.78)
0.00 (0.01)	0.04 (0.04)	0.00 (0.14)	0.13 (0.13)	0.01 (0.03)	-0.32 (0.87)

FIG. 5D





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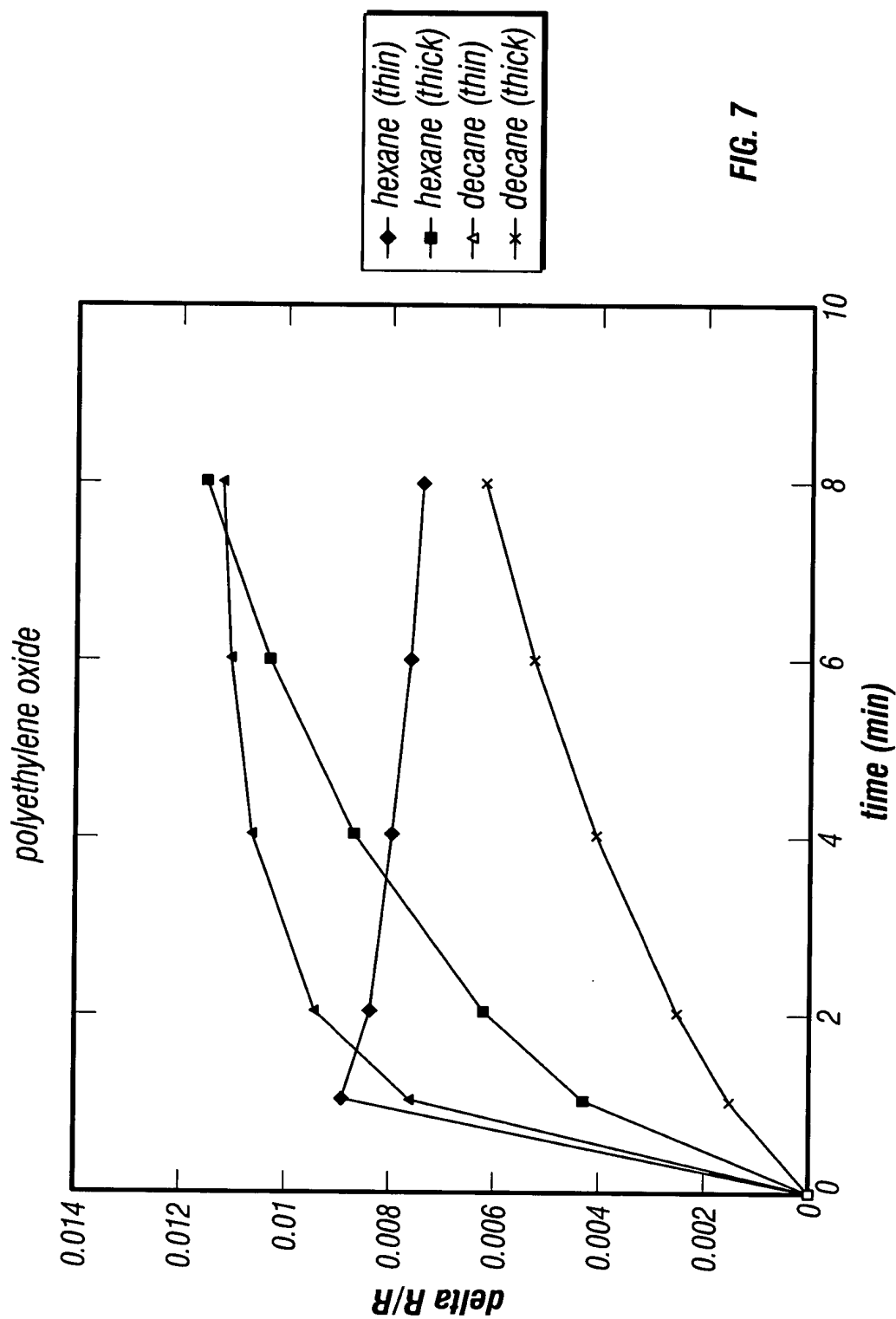


FIG. 7